



PATENT  
Attorney Docket No. 205963

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Crystal et al.

Application No. 09/629,074

Art Unit: 1633

Filed: July 31, 2000

Examiner: M. Penn

For: METHOD OF ENHANCING BONE  
DENSITY

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RESPONSE TO OFFICE ACTION

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

Dear Sir:

In response to the Office Action, mailed April 24, 2001, please enter the following amendments and consider the following remarks.

08/29/2001 TGEDAMU1 00000038 121216 09629074  
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Amendments

In the Claims

Please amend claims 1, 4, 5, 7, 17, 18, and 22-25 to read as follows:

1. A method for enhancing bone density or formation, the method comprising administering to at least one first cell associated with a region of a bone at least one first nucleic acid encoding at least one angiogenic protein, such that the first nucleic acid is expressed in the cell to produce the angiogenic protein, whereby bone density or formation is enhanced within the region; wherein the angiogenic protein is a vascular endothelial growth factor (VEGF), a connective tissue growth factor (CTGF), VEGF2, VEGF-C, an angiopoietin, an angiopoietin homologous protein, an angiogenin, an angiogenin-2, or PlGF.
4. The method of claim 1, wherein the angiogenic protein is VEGF<sub>121</sub> or VEGF<sub>165</sub>.
5. The method of claim 1, wherein the angiogenic protein is selected from the group consisting of VEGF<sub>121</sub>, VEGFA<sub>138</sub>, VEGFA<sub>162</sub>, VEGF<sub>165</sub>, VEGF<sub>182</sub>, and VEGF<sub>189</sub>.
7. The method of claim 6, wherein the osteogenic protein is selected from the group consisting of a bone morphogenic protein (BMP), a transforming growth factor (TGF),

CERTIFICATE OF MAILING

I hereby certify that this RESPONSE TO OFFICE ACTION (along with any documents referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.

Date: August 24, 2001

Signed: Peter Phillips